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HW p536 21-31 odd 33-44

$$21. \log_8 512 = 3 \quad 23. \log_5 \frac{1}{125} = -3$$

$$25. \log_{100} 10 = \frac{1}{2} \quad 27. 5^3 = 125$$

$$29. 4^{-1} = \frac{1}{4} \quad 31. 8^{\frac{2}{3}} = 4$$

$$33. \log_2 16 = (4) \quad 34. \log_{12} 144 = (2)$$

$$35. \log_{16} 4 = (\frac{1}{2}) \quad 36. \log_9 243 = 4$$

$$37. \log_2 \frac{1}{32} = (-5) \quad 9^x = 243$$

$$3^{24} = 3^5$$

$$38. \log_3 \frac{1}{81} = (-4)$$

$$(\frac{5}{2})$$

$$39. \log_5 5^7 = (7)$$

$$40. 2^{\log_2 45} = (45) \quad 41. \log_{11} 11^{(n-5)} = (n-5)$$

$$42. 6^{\log_6 (3x+2)} = (3x+2) \quad 43. \log_{10} .001$$

$$\log_{10} \frac{1}{1000} = (-3)$$

$$44. \log_4 16^x$$

$$(2x)$$